

## SOIL FERTILITY REMOVED IN SOME CROPS

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Many of us are interested in the nutrient content of our crops and its relation to soil maintenance.

The table below will show the approximate composition of certain crops on a ton basis. It shows the approximate amount of plant nutrients removed from the soil when one ton of crops is sold. This amount of nutrients will have to be added in one way or another if the soil fertility is maintained. If crop residue are burned or discarded, these amounts are not adequate to maintain the fertility of the land.

Fertilizing constituents removed from the farm when the following commodities are sold. (Basis - 1 ton) calculated from TAES Bulletin 461 (Revised).

Commodity	Lbs. of Nitrogen (N)	Lbs. of Phosphoric Acid ( $P_2O_5$ )	Lbs. of Potash ( $K_2O$ )	Lbs. of Lime (CaO)
<u>Feed Crops</u>				
Barley	37.8	17.50	12.5	1.4
Corn	31.0	13.0	8.0	.28
Corn & Cob (ground)	26.2	10.6	7.8	.28
Cotton Seed	74.0	25.4	22.8	5.0
Flax	75.2	30.5	14.0	7.0
Hegari	31.0	8.3	-	-
Kaffir	35.8	11.4	8.0	-
Maize	35.8	12.4	8.8	-
Millet	38.8	9.4	10	.28
Oats	38.4	15.2	9.6	2.6
Peanuts (with hulls)	79.8	15.2	9.6	.16
Peanuts (hulled)	97.6	17.6	13.2	.17
Wheat	42	19.8	10.6	.8
<u>Food Crops</u>				
Cabbage	5.8	.7	.6	1.4
Potatoes, Irish	6.6	3.4	12	.4

Potatoes, Sweet	5.6	4.0	14.4	1.0
Rice (clean)	26.6	9.6	5.2	.6
Tomatoes	2.8	.7	7.0	-

#### Hay

Alfalfa (Hay, average)	47.0	11.5	48.2	40.0
Alfalfa (Hay, leafy)	59.0	12.0	62.8	47.4
Alfalfa (Green)	14.8	2.78	13.6	11.2
Cowpea (Hay)	59.6	11.5	35.4	24.4
Johnson grass (Hay, young)	44.0	10.2	26.2	17.4
Johnson grass (Hay, bloom)	25.2	9.8	24.2	16.2
Johnson grass (Hay, mature)	17.2	7.8	22.0	12.8
Peanut Hay	32.0	5.4	34.8	33.4
Prairie Hay	18.2	4.6	29.4	24.4

#### Animal Products

Cattle	54.8	31.6	-	41.6
Hogs	91.4	43.2	-	57.6
Milk	10.0	3.52	3.2	2.25

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